



State of Ohio  
**Public Works Commission**  
*Application for Financial Assistance*

IMPORTANT: Please consult "Instructions for Financial Assistance for Capital Infrastructure Projects" for guidance in completion of this form.

Applicant

Applicant: Miami County Subdivision Code: 109-00109

District Number: 11 County: Miami Date: 06/24/2019

Contact: Britt R. Havenar, PE, PS Phone: (937) 440-5656  
(The individual who will be available during business hours and who can best answer or coordinate the response to questions)

Email: bhavenar@miamicountyohio.gov FAX: (937) 440-5659

Project

Project Name: Troy-Urbana Road Bridge No. 4.71 Replacement Zip Code: 45373

Subdivision Type	Project Type	Funding Request Summary
(Select one)	(Select single largest component by \$)	(Automatically populates from page 2)
<input checked="" type="checkbox"/> 1. County	<input type="checkbox"/> 1. Road	Total Project Cost: <u>450,000 .00</u>
<input type="checkbox"/> 2. City	<input checked="" type="checkbox"/> 2. Bridge/Culvert	1. Grant: <u>300,000 .00</u>
<input type="checkbox"/> 3. Township	<input type="checkbox"/> 3. Water Supply	2. Loan: <u>0 .00</u>
<input type="checkbox"/> 4. Village	<input type="checkbox"/> 4. Wastewater	3. Loan Assistance/ Credit Enhancement: <u>0 .00</u>
<input type="checkbox"/> 5. Water (6119 Water District)	<input type="checkbox"/> 5. Solid Waste	Funding Requested: <u>300,000 .00</u>
	<input type="checkbox"/> 6. Stormwater	

**District Recommendation** (To be completed by the District Committee)

Funding Type Requested	SCIP Loan - Rate: _____ % Term: _____ Yrs	Amount: _____ .00
(Select one)	RLP Loan - Rate: _____ % Term: _____ Yrs	Amount: _____ .00
<input type="checkbox"/> State Capital Improvement Program	Grant:	Amount: _____ .00
<input type="checkbox"/> Local Transportation Improvement Program	LTIP:	Amount: _____ .00
<input type="checkbox"/> Revolving Loan Program	Loan Assistance / Credit Enhancement:	Amount: _____ .00
<input type="checkbox"/> Small Government Program		
District SG Priority: _____		

**For OPWC Use Only**

STATUS	Grant Amount: _____ .00	Loan Type: <input type="checkbox"/> SCIP <input type="checkbox"/> RLP
Project Number: _____	Loan Amount: _____ .00	Date Construction End: _____
_____	Total Funding: _____ .00	Date Maturity: _____
Release Date: _____	Local Participation: _____ %	Rate: _____ %
OPWC Approval: _____	OPWC Participation: _____ %	Term: _____ Yrs

## 1.0 Project Financial Information (All Costs Rounded to Nearest Dollar)

### 1.1 Project Estimated Costs

#### Engineering Services

Preliminary Design:	_____	.00	
Final Design:	_____	.00	
Construction Administration:	_____	.00	
Total Engineering Services:	a.) _____	0 .00	_____ 0 %
Right of Way:	b.) _____	.00	
Construction:	c.) _____	450,000 .00	
Materials Purchased Directly:	d.) _____	.00	
Permits, Advertising, Legal:	e.) _____	.00	
Construction Contingencies:	f.) _____	.00	_____ 0 %
Total Estimated Costs:	g.) _____	450,000 .00	

### 1.2 Project Financial Resources

#### Local Resources

Local In-Kind or Force Account:	a.) _____	.00	
Local Revenues:	b.) _____	150,000 .00	
Other Public Revenues:	c.) _____	.00	
ODOT / FHWA PID: _____	d.) _____	.00	
USDA Rural Development:	e.) _____	.00	
OEPA / OWDA:	f.) _____	.00	
CDBG:	g.) _____	.00	
<input type="checkbox"/> County Entitlement or Community Dev. "Formula"			
<input type="checkbox"/> Department of Development			
Other: _____	h.) _____	.00	
Subtotal Local Resources:	i.) _____	150,000 .00	_____ 33 %

#### OPWC Funds (Check all requested and enter Amount)

Grant: _____ 100 % of OPWC Funds	j.) _____	300,000 .00	
Loan: _____ 0 % of OPWC Funds	k.) _____	.00	
Loan Assistance / Credit Enhancement:	l.) _____	0 .00	
Subtotal OPWC Funds:	m.) _____	300,000 .00	_____ 67 %
Total Financial Resources:	n.) _____	450,000 .00	_____ 100 %

### 1.3 Availability of Local Funds

Attach a statement signed by the Chief Financial Officer listed in section 5.2 certifying all local resources required for the project will be available on or before the earliest date listed in the Project Schedule section. The OPWC Agreement will not be released until the local resources are certified. Failure to meet local share may result in termination of the project. Applicant needs to provide written confirmation for funds coming from other funding sources.

### 2.0 Repair / Replacement or New / Expansion

2.1 Total Portion of Project Repair / Replacement:	<u>450,000</u> .00	<u>100</u> %
2.2 Total Portion of Project New / Expansion:	<u>0</u> .00	<u>0</u> %
2.3 Total Project:	<u>450,000</u> .00	<u>100</u> %

A Farmland  
Preservation letter is  
required for any  
impact to farmland

### 3.0 Project Schedule

3.1 Engineering / Design / Right of Way	Begin Date: <u>01/01/2020</u>	End Date: <u>05/01/2020</u>
3.2 Bid Advertisement and Award	Begin Date: <u>06/01/2020</u>	End Date: <u>06/30/2020</u>
3.3 Construction	Begin Date: <u>07/01/2020</u>	End Date: <u>11/15/2020</u>

Construction cannot begin prior to release of executed Project Agreement and issuance of Notice to Proceed.

Failure to meet project schedule may result in termination of agreement for approved projects. Modification of dates must be requested in writing by project official of record and approved by the Commission once the Project Agreement has been executed.

### 4.0 Project Information

If the project is multi-jurisdictional, information must be consolidated in this section.

#### 4.1 Useful Life / Cost Estimate / Age of Infrastructure

Project Useful Life: 47 Years Age: 1961 (Year built or year of last major improvement)

Attach Registered Professional Engineer's statement, with seal or stamp and signature confirming the project's useful life indicated above and detailed cost estimate.

#### 4.2 User Information

Road or Bridge: Current ADT 1,056 Year 2015 Projected ADT 1,422 Year 2044

Water / Wastewater: Based on monthly usage of 4,500 gallons per household; attach current ordinances.

Residential Water Rate Current \$ \_\_\_\_\_ Proposed \$ \_\_\_\_\_

Number of households served: \_\_\_\_\_

Residential Wastewater Rate Current \$ \_\_\_\_\_ Proposed \$ \_\_\_\_\_

Number of households served: \_\_\_\_\_

Stormwater: Number of households served: \_\_\_\_\_

## 4.3 Project Description

- A: SPECIFIC LOCATION (Supply a written location description that includes the project termini; a map does not replace this requirement.) 500 character limit.

The Troy-Urbana Road Bridge No. 4.71 is located in Lost Creek Township approximately 0.28 miles east of State Route 589 and adjacent to the Miami East School Complex. The project work limits will extend 200 feet in each direction from the center of the existing bridge.

- B: PROJECT COMPONENTS (Describe the specific work to be completed; the engineer's estimate does not replace this requirement) 1,000 character limit.

The existing Troy-Urbana Road Bridge No. 4.71 is a three span, non-composite prestressed concrete box beam structure with an asphalt wearing surface that spans the Middle Branch of Lost Creek. This structure is structurally deficient and currently has a sufficiency rating of 45.9.

- C: PHYSICAL DIMENSIONS (Describe the physical dimensions of the existing facility and the proposed facility. Include length, width, quantity and sizes, mgd capacity, etc in detail.) 500 character limit.

The existing 84 foot long, three span, 24 foot wide bridge with 21 foot wide approach pavement will be replaced with an 85 foot long, 32 foot wide structure with approximately 150 feet of approach work on both approaches. This replacement will include new capped pile abutments. Approaches will be widened in order to accommodate the wider bridge structure. The total length of this project is anticipated to be approximately 400 feet.



## 5.0 Project Officials

Changes in Project Officials must be submitted in writing from an officer of record.

### 5.1 Chief Executive Officer

(Person authorized in legislation to sign project agreements)

Name: Gregory A. Simmons  
Title: President, Board of Miami County Commissioners  
Address: 201 W Main Street  
  
City: Troy State: OH Zip: 45373  
Phone: (937) 440-5910  
FAX: (937) 440-5911  
E-Mail: commissioners@miamicountyohio.gov

### 5.2 Chief Financial Officer

(Can not also serve as CEO)

Name: Matthew W. Gearhardt  
Title: Miami County Auditor  
Address: 201 W. Main Street  
  
City: Troy State: Oh Zip: 45373  
Phone: (937) 440-5925  
FAX: (937) 440-3530  
E-Mail: auditor@miamicountyohio.gov

### 5.3 Project Manager

Name: Britt R. Havenar, PE, PS  
Title: Chief Deputy Engineer  
Address: 2100 N. County Road 25A  
  
City: Troy State: Oh Zip: 45373  
Phone: (937) 440-5656  
FAX: (937) 440-5659  
E-Mail: bhavenar@miamicountyohio.gov

## 6.0 Attachments / Completeness review

Confirm in the boxes below that each item listed is attached (Check each box)

- ☐ A certified copy of the legislation by the governing body of the applicant authorizing a designated official to sign and submit this application and execute contracts. This individual should sign under 7.0, Applicant Certification, below.
- ☐ A certification signed by the applicant's chief financial officer stating the amount of all local share funds required for the project will be available on or before the dates listed in the Project Schedule section. If the application involves a request for loan (RLP or SCIP), a certification signed by the CFO which identifies a specific revenue source for repaying the loan also must be attached. Both certifications can be accomplished in the same letter.
- ☒ A registered professional engineer's detailed cost estimate and useful life statement, as required in 164-1-13, 164-1-14, and 164-1-16 of the Ohio Administrative Code. Estimates shall contain an engineer's seal or stamp and signature.
- ☐ A cooperative agreement (if the project involves more than one subdivision or district) which identifies the fiscal and administrative responsibilities of each participant.
- ☒ Farmland Preservation Review - The Governor's Executive Order 98-IV, "Ohio Farmland Protection Policy" requires the Commission to establish guidelines on how it will take protection of productive agricultural and grazing land into account in its funding decision making process. Please include a Farm Land Preservation statement for projects that have an impact on farmland.
- ☐ Capital Improvements Report. CIR Required by O.R.C. Chapter 164.06 on standard form.
- ☐ Supporting Documentation: Materials such as additional project description, photographs, economic impact (temporary and/or full time jobs likely to be created as a result of the project), accident reports, impact on school zones, and other information to assist your district committee in ranking your project. Be sure to include supplements which may be required by your local District Public Works Integrating Committee.

## 7.0 Applicant Certification

The undersigned certifies: (1) he/she is legally authorized to request and accept financial assistance from the Ohio Public Works Commission as identified in the attached legislation; (2) to the best of his/her knowledge and belief, all representations that are part of this application are true and correct; (3) all official documents and commitments of the applicant that are part of this application have been duly authorized by the governing body of the applicant; and, (4) should the requested financial assistance be provided, that in the execution of this project, the applicant will comply with all assurances required by Ohio Law, including those involving Buy Ohio and prevailing wages.

**Applicant certifies that physical construction on the project as defined in the application has NOT begun, and will not begin until a Project Agreement for this project has been executed with the Ohio Public Works Commission. Action to the contrary will result in termination of the agreement and withdrawal of Ohio Public Works Commission funding from the project.**

Britt R. Havenar, PE, PS

Certifying Representative (Printed form, Type or Print Name and Title)

Britt R. Havenar 6/24/19

Original Signature / Date Signed

# District 11 Project Evaluation System

Project	TROY URBANA ROAD BRIDGE NO. 471 REPLACEMENT		1A
Applicant	MIAMI COUNTY		
County	MIAMI		

Cost Analysis	Total Project Cost	\$450,000	OPWC Grant Request	\$300,000	2A
			OPWC Loan Request	\$0	
			OPWC Loan Assistance Request	\$0	

Factor	System	Points Available	Criteria	Score
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Infrastructure repair and replacement needs of the District. (replacement costs divided by total costs)	$\frac{\$450,000.00}{\$450,000.00} = 1$ $1 \times 100 = 100\%$	5	100% replacement	5	3A
		3	99-51% replacement		
		0	<50% replacement		

Regional Nature of Project relative to infrastructure needs of the District	Roads/Bridges/Traffic Signals (determined by ODOT classification held by District 11 Liaison)	10	Major/Minor Arterial	7	4A
		7	Major/Minor Collector		
		4	All other Streets		
	Water Treatment/Storage Wastewater Treatment System/ Water Meter Projects	10	Population served $\geq$ 5,000		4B
		7	Population served $\geq$ 1,000 but < 5,000 inclusive		
		4	Population served < 1,000		
	Waterlines	10	Waterline $\geq$ 12"		4C
		7	Waterline $\geq$ 8" but < 12" inclusive		
		4	Waterline < 8"		
	Sanitary Sewer Lines	10	Sewer line $\geq$ 15"		4D
		7	Sewer line $\geq$ 10" but < 15" inclusive		
		4	Sewer line < 10"		
	Storm Water Systems (closed)	10	Tile size $\geq$ 36"		4E
		7	Tile size $\geq$ 24" but < 36" inclusive		
		4	Tile size < 24"		
	Storm Water Systems (open)	10	Drains $\geq$ 10,000 acres		4F
		7	Drains $\geq$ 1,000 but < 10,000 acres inclusive		
		4	Drains < 1,000 acres		
	Solid Waste Facilities	10	Population served $\geq$ 200,000		4G
		7	Population served $\geq$ 150,000 but < 200,000		
		4	Population served < 150,000		



### District 11 Project Evaluation System

Factor	System	Points Available	Criteria	Score
Useful Life of Project (Must be certified by an Engineer. Please provide explanation of how useful life was calculated.)	47 Year Weighted Useful Life	10	30 or more years	10
		7	20-29 years	
		4	10-19 years	
		0	7-9 years (less than seven years/project = ineligible)	

Readiness to Proceed (Projects must be substantially underway by June 1, 2021 to be eligible for Round 34.) Must be consistent with the leverage of other funds schedule.	Award Bid by 6/30/2020	5	Bid award date on or before 12/31/20	5
		3	Between 01/01/21- 03/31/21	
		1	Between 04/01/21 - 05/31/21	
		0	On or after June 1, 2021 - The project is not eligible for Round 34 funding.	

Multi-jurisdictional needs of the District (ODOT is not a local jurisdiction. Jurisdictions counted must provide at least 5% of the local match for the project.)	Only Miami County Involved in Project	5	3 or more local jurisdictions in the project agreement	0
		3	2 local jurisdictions in the project agreement	
		0	Single jurisdiction involved in the project	

Financial capacity of the applicant (90% state MHI = \$47,166 to 110% state MHI = \$57,647)* Certified income studies will not be accepted. Income sheets will be provided by district liaison.	Enter applicant's 2017 median household income (MHI): 2017 Ohio MHI \$52,407		3	
	Miami County MHI = \$54,568.00	5		< or = \$47,166
		3		> \$47,166 but < \$57,647
		0		> or = \$57,647

Applicant's previous performance on OPWC assisted projects	* Subdivisions that have more than one applicant (i.e. County Engineer and Utilities) will be considered separate applications for this criteria	10	No previous OPWC assistance since Round 23	5
		5	All projects Round 1-31 complete & all Round 32 projects under contract by 8/5/19	
		0	All others	

Population benefiting from the project (ADT for project area or population served by the project)	Enter ADT or population served:		6	
	Roads/Bridges (ADT) 1056 ADT	10		≥ 10,000 ADT
		8		> 2,500 but < 10,000 ADT inclusive
		6		>1,000 but < 2,500 ADT inclusive
		4		< 1,000 ADT
	Other Projects (population)	10	≥ 10,000	
		8	> 2,500 but < 10,000 population inclusive	
		6	>1,000 but < 2,500 population inclusive	
		4	< 1,000 population	



# District 11 Project Evaluation System

Factor	System	Points Available	Criteria	Score
Leverage of OPWC funds with Other Public Revenues (other public revenues divided by total resources) other revenues include grants from FHWA, USDA, CDBG, EPA, ODOT, ODOT. If using other revenues, a schedule of incoming funds and the commitment of those funds must be attached.	<del>\$0.00</del> \$450,000.00 = 0 or 0%	10	50% or more	0
		7	26-49%	
		5	16-25%	
		3	11-15%	
		0	10% or less	

11A

Leverage of OPWC funds with Local Funds (local funds divided by total resources) Local includes in-kind local public revenues user fees, other loans, assessments and / or private funds. OPWC loan does not count. If using other revenues, a schedule of incoming funds and the commitment of those funds must be attached.	<div>\$150,000.00/ \$450,000.00 = .34 or 34%</div>	10	50% or more	7
		7	26-49%	
		5	16-25%	
		3	11-15%	
		0	10% or less	

12A

Age and Condition of the System Health and Safety	New Projects (Where no infrastructure exists, this new project would have...)	10	Significant documented impact on health and safety concerns	
		7	Moderate documented impact on health and safety concerns	
		0	No documented impact on health and safety concerns	
	Bridges ( please provide sufficiency ratings in application)	10	Repair or replacement of a bridge having an ODOT sufficiency rating < 50, closed, or posted less than 25 tons	10
		7	Repair or replacement of a bridge having an ODOT sufficiency rating >50 but < 70 inclusive	
		0	Repair or replacement of a bridge having an ODOT sufficiency rating > 70	
	Roads	10	Project involves major reconstruction (including berm, ditch work and drainage structures)	
		7	Project involves minor reconstruction, 1" or more new asphalt, widening to meet current standards	
		0	Overlay of less than 1" new asphalt	
	Other Projects (Please provide documentation of age of system/EPA correspondence)	10	Project repairs / replaces facility under EPA orders or where demand routinely exceeds capacity or where verified periodic environmental health hazard is present or facility is over 50 years old	
		7	Project repairs/replaces facility 25 to 49 years old	
		0	Project repairs/replaces facility less than 25 years old	

13A

13B

13C

### District 11 Project Evaluation System

Factor	System	Points Available	Criteria	Score	
LTIP Specific	If eliminating safety hazard, please specify:			10	14A
	Roads/Bridges/Traffic Signals only	10	Project assists applicant in obtaining transportation infrastructure needed for significant, specific development opportunities or bridge replacement		
		7	Project assists applicant in alleviating traffic congestion (Level D or worse)		
		4	Project eliminates safety hazard		
		0	Routine repair, resurfacing or reconstruction		

Grant/Loan Request (The values in this section refer to OPWC funding only. Projects that are 100% loan will get 10 points, regardless of the loan amount. Grant loan combinations will be scored as grant requests.)	\$300,000.00 Grant	10	100% loan request	5	15A
		7	\$1- \$150,000 grant request		
		5	\$150,001 - \$300,000 grant request		
		3	\$300,001 - \$600,000 grant request		
		0	Over \$600,000 grant request		

Pre - County Project Review Committee Priority Subtotal	73
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Priority of the project at the county level as determined by the county's project review committee	All	Champaign, Darke, Madison, Preble, and Union County= 30 points. Clark, Greene, Miami County =40 points. Points may be distributed amongst projects at each county subcommittee's discretion. For example, one project may receive 30 points or 30 projects may receive 1 point. Points are to be awarded by the subcommittee prior to application submission to the District.	0	16A
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Project Review Committee Compliance. Applicant receives points from county review committee for county compliance	All	10	County committee approves that project was in compliance with county review committee policies	10	17A
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Post - County Project Review Committee Priority Subtotal	83
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District Priority Points (Scoring in this section is only to be completed by the Executive Committee)	All	25	Distributed by Executive Committee		18A
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Final Total	83
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\*\*\*\*\* The District 11 tie breaker for the current round is Executive Committee preference. The tie breaker for small government round is the largest OPWC request. The tie breaker for any supplemental loan round is smallest loan request. \*\*\*\*\*



TROY-URBANA ROAD BRIDGE NO. 4.71 REPLACEMENT  
ESTIMATE

					ENGINEER'S ESTIMATE	
Item	Item No.	Description	Quan	Unit	Unit Price	Total Amount
<b>ROADWAY</b>						
1	201	Clearing and Grubbing, As Per Plan	1	Lump Sum	\$3,000.00	\$3,000.00
2	202	Guardrail Removed, As Per Plan	500	Ft.	\$3.00	\$1,500.00
3	202	Fence Removed	15	Ft.	\$3.00	\$45.00
4	203	Excavation	400	Cu. Yd.	\$16.00	\$6,400.00
5	203	Embankment	250	Cu. Yd.	\$16.00	\$4,000.00
6	204	Subgrade Compaction, As Per Plan	500	Sq. Yd.	\$2.00	\$1,000.00
7	606	Guardrail, Type 5, As Per Plan	500	Ft.	\$16.00	\$8,000.00
8	606	Bridge Terminal Assembly, Type 4, As Per Plan	4	Each	\$650.00	\$2,600.00
9	606	Type "A" Anchor Assembly	4	Each	\$1,000.00	\$4,000.00
<b>EROSION CONTROL</b>						
10	601	Rock Channel Protection, Type B w/Filter	150	Cu. Yd.	\$50.00	\$7,500.00
11	659	Seeding and Mulching, As Per Plan	1000	Sq. Yd.	\$2.50	\$2,500.00
12	832	Erosion Control	1000	Each	\$1.00	\$1,000.00
<b>PAVEMENT</b>						
13	301	Asphalt Concrete Base	40	Cu. Yd.	\$250.00	\$10,000.00
14	304	Aggregate Base, As Per Plan	70	Cu. Yd.	\$60.00	\$4,200.00
15	407	Tack Coat @ 0.10 Gal/S.Y.	50	Gal.	\$10.00	\$500.00
16	448	Asphalt Concrete, Intermed. Course, Type 2, PG 64-22	20	Cu. Yd.	\$300.00	\$6,000.00
17	448	Asphalt Concrete, Surface Course, Type 1, PG 64-22	15	Cu. Yd.	\$300.00	\$4,500.00
18	617	Compacted Aggregate, 411 Crushed Limestone	8	Cu. Yd.	\$75.00	\$600.00
<b>TRAFFIC CONTROL</b>						
19	614	Maintaining Traffic, As Per Plan	1	Lump Sum	\$3,814.50	\$3,814.50
<b>MISCELLANEOUS ITEMS</b>						
20	623	Construction Layout Stakes	1	Lump Sum	\$4,000.00	\$4,000.00

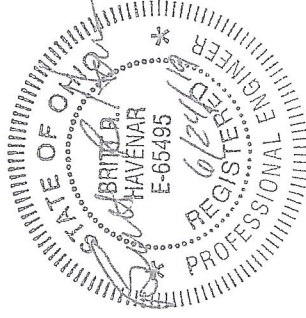
**Sub Total (Roadway Only)**      \$      \$75,159.50      \$0.00

Item	Item No.	Description	Quan	Unit	Unit Price	Total Amount	Unit Price	Total Amount
<b>BRIDGE QUANTITIES</b>								
21	202	Structure Removed	1	Lump Sum	\$50,000.00	\$50,000.00		
22	448	Asphalt Concrete, Intermed. Course, Type 2, PG 64-22	22	Cu. Yd.	\$300.00	\$6,600.00		
23	448	Asphalt Concrete, Surface Course, Type 1, PG 64-22	14	Cu. Yd.	\$300.00	\$4,200.00		
24	503	Unclassified Excavation	1	Lump Sum	\$12,500.00	\$12,500.00		
25	505	Pile Driving Equipment Mobilization	1	Lump Sum	\$15,000.00	\$15,000.00		
26	507	Steel Piles HP12x53, Furnished, As per Plan	420	Ft.	\$50.00	\$21,000.00		
27	507	Steel Piles HP12x53, Driven, As per Plan	350	Ft.	\$15.00	\$5,250.00		
28	509	Epoxy Coated Reinforcing Steel	4969	Lbs.	\$2.00	\$9,938.00		
29	511	Class C Concrete, Footings	42	Cu. Yd.	\$750.00	\$31,500.00		
30	511	Class C Concrete, Abutment Walls	6	Cu. Yd.	\$750.00	\$4,500.00		
31	512	Type 3 Membrane Waterproofing	320	Sq. Yd.	\$40.00	\$12,800.00		

TROY-URBANA ROAD BRIDGE NO. 4.71 REPLACEMENT  
ESTIMATE

32	512	Sealing of Concrete Surfaces, Epoxy Urethane, as per plan	150	Sq. Yd.	\$25.00	\$3,750.00	
33	515	Prestressed Bridge Members, Level 1, Non-composite, B42x48, (85'-0" Length)	8	Each	\$22,000.00	\$176,000.00	
34	516	1"x6"x12" Elastomeric Bearing Pads, (60 Durometer)	32	Each	\$70.00	\$2,240.00	
35	516	1/8" Preformed Bearing Pad, 7'11.21	10	Sq. Ft.	\$15.00	\$150.00	
36	516	1" Preformed Expansion Joint Filler	36	Sq. Ft.	\$5.00	\$180.00	
37	517	Railing (Deep Beam w/ Tubular Backup, Type 2 Posts, Bolts, Nuts, Etc.	175	Ft.	\$75.50	\$13,212.50	
38	518	Porous Backfill with Filter Fabric	40	Cu. Yd.	\$70.00	\$2,800.00	
39	Special	Steel Drip Strip, As Per Plan	184	Ft.	\$17.50	\$3,220.00	
Subtotal (Bridge Only)					\$	\$374,840.50	\$0.00

TOTAL \$ \$450,000.00 \$0.00





## WEIGHTED USEFUL LIFE CALCULATION

Troy-Urbana Road Bridge No. 4.71 Replacement

Component	Useful Life	x	Estimated Cost	x	Weighted Useful Life
Bridge Beams	50		\$176,000		\$8,800,000
Bridge Superstructure	50		\$242,700		\$12,135,000
Asphalt Overlay	15		\$31,300		\$469,500
Totals			\$450,000		\$21,404,500

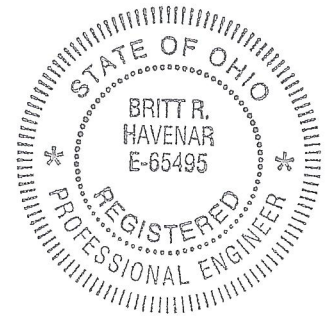
Average Weighted Useful Life =  $\$21,404,500 / \$450,000 = 47.6$  years

Britt R Havenar

Britt R. Havenar, P.E., P.S.

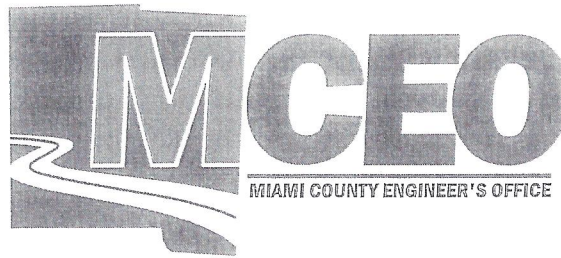
6/24/19

Date



Miami County Engineer's Office  
& County Garage  
2100 North County Road 25A  
Troy, Ohio 45373

Office: 937-440-5656  
Garage: 937-440-5658  
Fax: 937-440-5659  
MCEO@MiamiCountyOhio.gov



Miami County Tax Map Office  
Miami County Safety Building  
County Plaza  
201 West Main Street  
Troy, Ohio 45373

Office: 937-440-6025  
Fax: 937-440-6026  
MCEO@MiamiCountyOhio.gov

Paul P. Huelskamp PE, PS • Miami County Engineer

## FARMLAND PRESERVATION REVIEW LETTER

Troy-Urbana Road Bridge No. 4.71 Replacement  
June 24, 2019

This review is to comply with the Farmland Preservation Review Advisory of the Ohio Public Works Commission and the Governor's Executive Order 98-IV. This review was accomplished by the Miami County Engineer's Office.

1. The immediate impact the project will have on productive agricultural and grazing land related to land acquisition.

N/A. No additional right-of-way will be acquired.

2. Indirect impact that will result in the loss of productive agricultural and grazing land from development related to this project.

N/A. No indirect impact expected.

3. Mitigation measures that could be implemented when alternative sites or locations are not feasible.

N/A. All work in the existing road right-of-way.

Britt R. Havenar, PE, PS  
Chief Deputy Miami County Engineer

